COORDINATES FROM LINEAR EQUATIONS

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	y=2x+3, x=4	11	2.	y=5x-1, x=3	14
3.	y=3x+4, x=0	4	4.	y=4x-2, y=10	3
5.	y=6x+1, y=13	2	6.	y=7x-3, y=18	3
7.	(1,3), (2,5)	2	8.	(0,4), (3,10)	2
9.	(2,1), (5,10)	3	10.	(4,5), (6,11)	3
11.	(3,2), (7,14)	3	12.	(1,6), (4,15)	3
13.	y=3x+2, (2,8)	true	14.	y=4x-1, (3,10)	false
15.	y=2x+5, (0,5)	true	16.	y=5x-3, (1,1)	false
17.	m=2, (1,4)	y=2x+2	18.	m=3, (2,7)	y=3x+1
19.	m=4, (0,5)	y=4x+5	20.	m=1, (3,8)	y=x+5
21.	(0,2), (1,6)	y=4x+2	22.	(2,3), (4,7)	y=2x-1
23.	(1,5), (3,9)	y=2x+3	24.	(3,1), (5,7)	y=3x-8

25. y=3x+1, x=5 | 16

26. y=4x-3, x=2 | 5

27. y=8x+2, y=18 | 2

28. y=5x-4, y=11 | 3

29. (5,2), (8,8) | 2

30. (4,7), (6,13) | 3

MASTER QUESTIONS

M1. A plant grows 3cm per week. After 4 weeks it is 15cm tall. Write an equation for height (h) after w weeks. | h=3w+3

M2. A taxi charges £3 base plus £2 per mile. Write an equation for cost (C) for m miles. | C=2m+3

M3. A line passes through (1,5) with gradient 4. Find its equation. | y=4x+1

M4. A tank has 100 litres. Water leaks at 5 litres per hour. Write an equation for volume (V) after t hours. | V=100-5t

M5. Find the equation of the line passing through (2,8) and (4,14). | y=3x+2

M6. A shop sells books for £5 each plus £2 delivery. Write an equation for total cost (C) for b books. | C=5b+2

M7. A line has gradient 3 and crosses the y-axis at 4. Write its equation. | y=3x+4

M8. A car drives at 60mph. After 3 hours it has travelled 200 miles. Write an equation for distance (d) after t hours. | d=60t+20

M9. Find the equation of the line passing through (0,6) and (3,15). | y=3x+6

M10. A phone plan costs £10 monthly plus 50p per minute. Write an equation for cost (C) for m minutes. | C=0.5m+10